

NPDES and State Waste Discharge General Permit for

Process Water, Stormwater, and Mine Dewatering Water Associated with

Sand and Gravel Operations, Rock Quarries, and Similar Mining Facilities, Including Stockpiles of Mined Materials, Concrete Batch Operations and Hot Mix Asphalt Operations



- Timber Tracts (sand and gravel point source activities)
- Logging (sand and gravel point source activities)
- Dimension Stone
- Crushed and Broken Limestone
- Crushed and Broken Granite
- Crushed and Broken Stone, Not Elsewhere Classified
- Construction Sand and Gravel
- Industrial Sand
- Kaolin and Ball Clay
- Clay, Ceramic, and Refractory Minerals, Not Otherwise Classified
- Miscellaneous Nonmetallic Minerals, Except Fuels
- Asphalt Paving Mixtures and Blocks
- Ready-Mixed Concrete



- NPDES & State Waste Discharge Permit
 - Authorizes discharges to surface water and ground water
 - Stormwater
 - Process water
 - Mine dewatering water



- 3rd iteration of general permit
 - First permit issued in 1994
 - Second permit issued in 1999
 - Expires August 6, 2004
- 937 facilities covered under permit
 - > 20% discharge to surface water
 - > 80% discharge to ground water

- Discharge Limitations
 - Numerical effluent limitations
- Monitoring
 - Sampling and Analysis
 - > Inspections
 - Visual monitoring
- Reporting and Recordkeeping
 - Quarterly DMRs
 - Noncompliance notification

Stormwater limits: discharge to surface waters

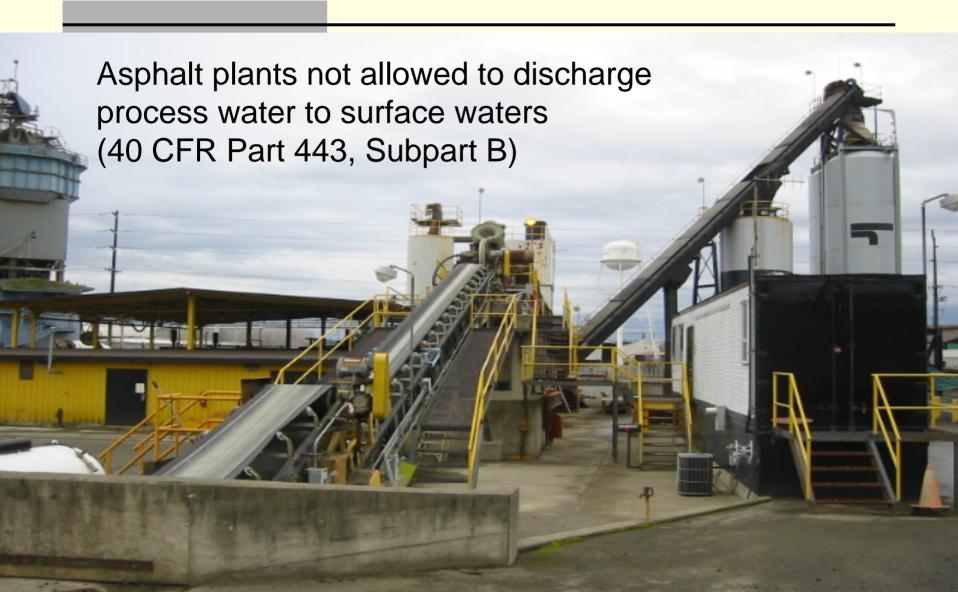
Parameter	Average Monthly	Maximum Daily
Turbidity	50 NTU	50 NTU
	Daily Discharge Limits	
	Minimum	Maximum
рН	6.0	9.0



- Timber Tracts/Logging,
- Crushed Limestone/Granite/Stone,
- Construction Sand and Gravel, and
- Ready Mixed Concrete

Process Water/Mine Dewatering → **Surface Water**

Parameter	Average Monthly	Maximum Daily
TSS	40 mg/liter	80 mg/liter
Turbidity	50 NTU	50 NTU
	Daily Discharge Limits	
	Minimum	Maximum
pН	6.0	9.0 WASHINGTON STAT



Industrial Sand Facilities

Process Water/Mine Dewatering → **Surface Water**

Process/Mine	Surface Water	er Discharge Limits	
Dewatering Water	Average Monthly	Maximum Daily	
TSS	25 mg/liter	45 mg/liter	
Turbidity	50 NTU	50 NTU	
	Daily Discharge Limits		
	Minimum	Maximum	
рН	6.0	9.0 F P A R T M E N T	

Impaired Waters

- Parameters of Concern:
 - > Turbidity
 - > Fine Sediment
 - >pH
 - > Temperature
- Direct discharges



Impaired Waters

- Comply with completed TMDLs
 - > If completed prior to effective date of permit
- If TMDL not completed,
 - Effluent Limit = WQ Standards
 - pH: 6.5 8.5
 - Turbidity/Sediment: 5 NTU over background
 - Temperature:18°C

Impaired Waters

- Compliance schedule existing facilities
 - Monitoring/Reporting
 - Goal: Characterize effect of discharge on receiving water temperature

Ground Water Limitations – All Facilities

• Process Water	Daily Discharge Limits	
 Mine Dewatering Water Stormwater	Minimum	Maximum
рН	6.5	8.5



Monitoring – Surface Water Discharges

Category	Parameter	Frequency
•Process water	Turbidity	Two times a month
•Dewatering water	рН	Monthly
•Stormwater	Temperature	Weekly (summer)
Process waterDewatering water	TSS	Quarterly
•Process Water (Concrete Producers)	TDS	Monthly

Monitoring – Ground Water Discharges

Category	Parameter	Frequency
• Stormwater	pН	Quarterly
Process water	pН	Monthly
• Process Water*	TDS	Monthly

^{*}Concrete plants only, asphalt plants dropped

Concrete/Asphalt Plants – that discharge process water to ground

- Previous permit had provisions to require facilities that typically exceed 500 mg/l TDS to conduct ground water impact study.
- Draft permit modifies this approach to allow operators to implement adaptive management schedule to address TDS problem before conducting ground water impact study.

Reporting

- Discharge Monitoring Reports (DMRs)
 - Quarterly
 - DMR deadline changed from 15 to 30 days after the end of the monitoring period



Permit Renewal Schedule

July 7 Public Notice of Draft

Aug 10-12 Hearings/Workshops

Aug 13 End Public Comment Period

Sept 15 Issue Permit

Oct 14 Effective

